

09/419,856

Abstract of the Disclosure

A fire resistant carpet backing formulation has five components of:

- a) a polyurethane dispersion;
- b) fire retardant components having at least
  - a) ammonium polyphosphate,
  - b) melamine, and
  - c) a char former;
- c) solvents including water;
- d) filler, pigment and grinding aids; and
- e) surfactants.

Preferred char formers are pentaerythritol and polysaccharides.

The polyurethane dispersion is present in about 18-30% by weight, the fire retardant components of part (b) are present in about 39-61% by weight and the solvents of part (c) are present in about 9-25% by weight in the preferred embodiments. Nylon carpets made with this backing are fire retardant and meet the airline standards for fire safety.